

Amendments to and Listing of Claims

Please amend the second claim labeled 16 on page 20 and the claims labeled 17 and 18 on page 21. Please cancel the claim labeled 19 on page 21. This listing of claims will replace all prior versions and listings of claims in the application:

1. (Original) A control valve in which a direct-moved shaft having one of two ends abutted against a diaphragm is direct moved according to deformation of the diaphragm so that a valve element provided on the other end of the direct-moved shaft is adhered to and separated from an opening edge of a passage, thereby controlling a flow rate of a fluid passing through the passage, the control valve comprising:

a first body enclosing the direct-moved shaft therein;

a second body enclosing the diaphragm therein;

a compressive elastic member deformed by compression when the second body is pressed against the first body; and

a holder for holding the second body on the first body while the compressive elastic member is deformed by compression.

2. (Original) A control valve according to claim 1, further comprising an outer cylinder fitted with an outer face of the first body and having an open end, wherein the second body is fitted in the open end of the outer cylinder, and the holder is formed by projecting a part of the outer cylinder toward the second body side.

3. (Original) A control valve according to claim 1, wherein the compressive elastic member is a wave washer formed by corrugating an annular disc.

4. (Original) A control valve according to claim 2, wherein the compressive elastic member is a wave washer formed by corrugating an annular disc.

5. (Original) A control valve according to claim 1, wherein the direct-moved shaft includes another shaft extending through a center thereof, and said another shaft has both ends mounted on the first or second body so that said another shaft is direct-moved.

6. (Original) A control valve according to claim 2, wherein the direct-moved shaft includes another shaft extending through a center thereof, and said another shaft has both ends mounted on the first or second body so that said another shaft is direct-moved.

7. (Original) A control valve according to claim 3, wherein the direct-moved shaft includes another shaft extending through a center thereof, and said another shaft has both ends mounted on the first or second body so that said another shaft is direct-moved.

8. (Original) A control valve according to claim 4, wherein the direct-moved shaft includes another shaft extending through a center thereof, and said another shaft has both ends mounted on the first or second body so that said another shaft is direct-moved.

9. (Original) A control valve according to claim 1, wherein the direct-moved shaft is provided with a magnetic member and the first body is provided with a solenoid operatively associated with the magnetic member to generate magnetic force directed axially with respect to the direct-moved shaft.

10. (Original) A control valve according to claim 2, wherein the direct-moved shaft is provided with a magnetic member and the first body is provided with a solenoid operatively associated with the magnetic member to generate magnetic force directed axially with respect to the direct-moved shaft.

11. (Original) A control valve according to claim 3, wherein the direct-moved shaft is provided with a magnetic member and the first body is provided with a solenoid operatively associated with the magnetic member to generate magnetic force directed axially with respect to the direct-moved shaft.

12. (Original) A control valve according to claim 4, wherein the direct-moved shaft is provided with a magnetic member and the first body is provided with a solenoid operatively associated with the magnetic member to generate magnetic force directed axially with respect to the direct-moved shaft.

13. (Original) A control valve according to claim 5, wherein the direct-moved shaft is provided with a magnetic member and the first body is provided with a solenoid operatively associated with the magnetic member to generate magnetic force directed axially with respect to the direct-moved shaft.

14. (Original) A control valve according to claim 6, wherein the direct-moved shaft is provided with a magnetic member and the first body is provided with a solenoid operatively associated with the magnetic member to generate magnetic force directed axially with respect to the direct-moved shaft.

15. (Original) A control valve according to claim 7, wherein the direct-moved shaft is provided with a magnetic member and the first body is provided with a solenoid operatively associated to generate magnetic force directed axially with respect to the direct-moved shaft.

16. (Original) A control valve in which a direct-moved shaft having one of two ends abutted against a diaphragm is direct-moved according to deformation of the diaphragm so that a valve element provided on the other end of the direct-moved shaft is adhered to and separated from an opening edge of a passage, thereby controlling a flow rate of a fluid passing through the passage, the control valve comprising:

a first body enclosing the direct-moved shaft therein;

a second body enclosing the diaphragm therein;

an outer cylinder provided on the first body so that the second body is fitted in the cylinder, the outer cylinder including a cylindrical wall; and

a holder provided on the cylindrical wall of the outer cylinder for holding the second body disposed at any location in the outer cylinder.

17. ~~16~~ (Currently Amended) A control valve according to claim ~~15~~ 16, wherein the direct-moved shaft includes another shaft extending through a center thereof, and said another shaft has both ends mounted on the first or second body so that said another shaft is direct-moved.

18. ~~17~~ (Currently Amended) A control valve according to claim ~~15~~ 16, wherein the direct-moved shaft is provided with a magnetic member and the first body is provided with a solenoid operatively associated with the magnetic member to generate magnetic force directed axially with respect to the direct-moved shaft.

19. ~~18~~ (Currently Amended) A control valve according to claim ~~16~~ 17, wherein the direct-moved shaft is provided with a magnetic member and the first body is provided with a solenoid

operatively associated with the magnetic member to generate magnetic force directed axially with respect to the direct-moved shaft.

20. (Cancelled)